

Title (en)  
AL-CONTAINING FERRITIC STAINLESS STEEL AND METHOD FOR MANUFACTURING SAME

Title (de)  
AL-HALTIGER FERRITISCHER EDELSTAHL UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)  
ACIER INOXYDABLE FERRITIQUE CONTENANT D'AL ET UN PROCÉDÉ POUR SA FABRICATION

Publication  
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Application  
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Abstract (en)  
[origin: EP3342895A1] Al-containing ferritic stainless steel sheet provided with sulfide corrosion resistance without relying on surface treatment such as coating and plating and without relying on addition of 3% or more of Al and a method for production thereof are provided. The Al-containing ferritic stainless steel of the present invention contains, by mass%, C: 0.03% or less, Si: 2% or less, Mn: 2% or less, Cr: 13 to 21%, P: 0.05% or less, S: 0.01% or less, Al: 1.5 to 2.5%, Ti: 0.03 to 0.5%, N: 0.03% or less, and Mg: 0.0005 to 0.01% and has a balance of Fe and unavoidable impurities. The stainless steel has a surface film of a film thickness of 100 nm or less. The composition of the surface film is, by ratio at% of only cations except C, O, and N, Al>60 at%, Cr<10 at%, Fe<10 at%, and 0.5 at%<Mg<5 at%.

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Cited by  
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